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#5	((statistics<in>metadata) <and> (optimise<in>metadata)) <and> (query<in>metadata)
#6	((statistics<in>metadata) <and> (optimise<in>metadata)) <and> (estimation<in>metadata)
#7	((query<in>metadata) <and> (optimise<in>metadata))<and> (estimation<in>metadata)
#8	((query<in>metadata) <and> (optimise<in>metadata))<and> (de morgan<in>metadata)
#9	((query<in>metadata) <and> (optimise<in>metadata))<and> (disjunctive<in>metadata)
#10	((query<in>metadata) <and> (optimise<in>metadata))<and> (conjunctive<in>metadata)
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#12	((query<in>metadata) <and> (optimise<in>metadata))<and> (subset<in>metadata)
#13	((query<in>metadata) <and> (optimise<in>metadata))<and> (expressioins<in>metadata)
#14	((query<in>metadata) <and> (optimise<in>metadata))<and> (expression<in>metadata)
#15	((query<in>metadata) <and> (optimise<in>metadata))<and> (expression<in>metadata)

#16 ((query<in>metadata) <and> (optimise<in>metadata))<and> (expression<in>metadata)

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☐ 13. **Optimized translation of XPath into algebraic expressions parameterized containing navigational primitives**
Helmer, S.; Kanne, C.-C.;
Web Information Systems Engineering, 2002. WISE 2002. Proceedings of the
International Conference on
12-14 Dec. 2002 Page(s):215 - 224
Digital Object Identifier 10.1109/WISE.2002.1181658

AbstractPlus | Full Text: PDF(339 KB) IEEE CNF

☐ 14. **Query processing with description logic ontologies over object-wrapped**
Peim, M.; Franconi, E.; Paton, N.W.; Goble, C.A.;

Scientific and Statistical Database Management, 2002. Proceedings. 14th Inte
Conference on
24-26 July 2002 Page(s):27 - 36
Digital Object Identifier 10.1109/SSDM.2002.1029703

AbstractPlus | Full Text: PDF(382 KB) IEEE CNF

☐ **15. Ad hoc OLAP: expression and evaluation**
Chatziantoniou, D.;
Data Engineering, 1999. Proceedings., 15th International Conference on
23-26 March 1999 Page(s):250
Digital Object Identifier 10.1109/ICDE.1999.754930

AbstractPlus | Full Text: PDF(20 KB) IEEE CNF

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Chatziantoniou, D.;
Scientific and Statistical Database Management, 1999. Eleventh International
28-30 July 1999 Page(s):34 - 43
Digital Object Identifier 10.1109/SSDM.1999.787619

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☐ **17. Algebraic XML construction in Natix**
Fiebig, T.; Moerkotte, G.;
Web Information Systems Engineering, 2001. Proceedings of the Second Inte
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Volume 1, 3-6 Dec. 2001 Page(s):212 - 221 vol.1

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1 Research sessions: statistics: Conditional selectivity for statistics on query expressions

Nicolas Bruno, Surajit Chaudhuri

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(355.41 KB) Additional Information: full citation, abstract, references

Cardinality estimation during query optimization relies on simplifying assumptions that usually do not hold in practice. To diminish the impact of inaccurate estimates during optimization, statistics on query expressions (SITs) have been previously proposed. These statistics help directly model the distribution of tuples on query sub-plans. Past work in statistics on query expressions has exploited view matching technology to harness their benefits. In this paper we argue against such an approac ...

2 Query execution and optimization: Weighted hypertree decompositions and optimal query plans

Francesco Scarcello, Gianluigi Greco, Nicola Leone

June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '04**

Publisher: ACM Press

Full text available: pdf(217.58 KB) Additional Information: full citation, abstract, references

Hypertree width [22, 25] is a measure of the degree of cyclicity of hypergraphs. A number of relevant problems from different areas, e.g., the evaluation of conjunctive queries in database theory or the constraint satisfaction in AI, are tractable when their underlying hypergraphs have bounded hypertree width. However, in practical contexts like the evaluation of database queries, we have more information besides the structure of queries. For instance, we know the number of tuples in relations, ...

3 Experiences building the open OODB query optimizer

José A. Blakeley, William J. McKenna, Goetz Graefe

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper reports our experiences building the query optimizer for TI's Open OODB system. To the best of our knowledge, it is the first working object query optimizer to be based on a complete extensible optimization framework including logical algebra, execution algorithms, property enforcers, logical transformation rules, implementation rules, and selectivity and cost estimation. Our algebra incorporates a new materialize operator with its corresponding logical transform ...

4 Industrial sessions: beyond relational tables: Garlic: a new flavor of federated query processing for DB2

Vanja Josifovski, Peter Schwarz, Laura Haas, Eileen Lin

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

In a large modern enterprise, information is almost inevitably distributed among several database management systems. Despite considerable attention from the research community, relatively few commercial systems have attempted to address this issue. This paper describes new technology that enables clients of IBM's DB2 Universal Database to access the data and specialized computational capabilities of a wide range of non-relational data sources. This technology, based on the Garlic prototype deve ...

5 Optimizing multiple dimensional queries simultaneously in multidimensional databases

Weifa Liang, Maria E. Orlowska, Jeffrey X. Yu

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(269.57 KB) Additional Information: full citation, abstract, citings, index terms

Some significant progress related to multidimensional data analysis has been achieved in the past few years, including the design of fast algorithms for computing datacubes, selecting some precomputed group-bys to materialize, and designing efficient storage structures for multidimensional data. However, little work has been carried out on multidimensional query optimization issues. Particularly the response time (or evaluation cost) for answering several related dimensional queries simultaneous ...

Keywords: Data warehousing, MDDBs, Multiple dimensional query optimization, OLAP, Query modeling

6 Research sessions: continuous queries and streams: Rate-based query optimization for streaming information sources

Stratis D. Viglas, Jeffrey F. Naughton

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Relational query optimizers have traditionally relied upon table cardinalities when estimating the cost of the query plans they consider. While this approach has been and continues to be successful, the advent of the Internet and the need to execute queries over streaming sources requires a different approach, since for streaming inputs the cardinality may not be known or may not even be knowable (as is the case for an unbounded stream.) In view of this, we propose shifting from a cardinality-ba ...

7 Multiway spatial joins

Nikos Mamoulis, Dimitris Papadias
December 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 4
Publisher: ACM Press

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Due to the evolution of Geographical Information Systems, large collections of spatial data having various thematic contents are currently available. As a result, the interest of users is not limited to simple spatial selections and joins, but complex query types that implicate numerous spatial inputs become more common. Although several algorithms have been proposed for computing the result of pairwise spatial joins, limited work exists on processing and optimization of *multiway spatial join ...*

Keywords: *Multiway joins, query processing, spatial joins*

8 Research sessions: query processing I: Exploiting statistics on query expressions for optimization

Nicolas Bruno, Surajit Chaudhuri
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

Statistics play an important role in influencing the plans produced by a query optimizer. Traditionally, optimizers use statistics built over base tables and assume independence between attributes while propagating statistical information through the query plan. This approach can introduce large estimation errors, which may result in the optimizer choosing inefficient execution plans. In this paper, we show how to extend a generic optimizer so that it also exploits statistics built on expression ...

9 Research sessions: XML I: StatiX: making XML count

Juliana Freire, Jayant R. Haritsa, Maya Ramanath, Prasan Roy, Jérôme Siméon
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings, index terms

The availability of summary data for XML documents has many applications, from providing users with quick feedback about their queries, to cost-based storage design and query optimization. *StatiX* is a novel XML Schema-aware statistics framework that exploits the structure derived by regular expressions (which define elements in an XML Schema) to pinpoint places in the schema that are likely sources of *structural skew.* As we discuss below, this information can be used to build conci ...

10 Multiple-granularity interleaving for piggyback query processing

Brian Dunkel, Qiang Zhu, Wing Lau, Suyun Chen
November 1999 **Proceedings of the 1999 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: pdf(353.91 KB) Additional Information: full citation, abstract, references, index terms

Piggyback query processing is a new technique, described in [24], intended to perform

additional useful computation (e.g., database statistics collection) during normal query processing, taking full advantage of data resident in main memory. Different types of benecial piggybacking have been identifed and studied, but how to efficiently integrate piggyback operations with a given user query is still an open issue. In this paper, we propose a technique of multiple-granularity interleaving to effi ...

Keywords: database statistics, multiple-granularity interleaving, piggybacking, query optimization, query processing

11 XML query processing I: Dynamic XML documents with distribution and replication

Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(209.06 KB) Additional Information: full citation, abstract, references, citings, index terms

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly while other parts are given only intensionally by means of embedded calls to web services that can be called to generate the required information. By the sole presence of Web services, dynamic documents already include inherently some form of di ...

12 Building knowledge base management systems

John Mylopoulos, Vinay Chaudhri, Dimitris Plexousakis, Adel Shrufi, Thodoros Topologlou

December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(403.22 KB) Additional Information: full citation, abstract, citings, index terms

Advanced applications in fields such as CAD, software engineering, real-time process control, corporate repositories and digital libraries require the construction, efficient access and management of large, shared knowledge bases. Such knowledge bases cannot be built using existing tools such as expert system shells, because these do not scale up, nor can they be built in terms of existing database technology, because such technology does not support the rich representational structure and infer ...

Keywords: Concurrency control, Constraint enforcement, Knowledge base management systems, Rule management, Storage management

13 MIL primitives for querying a fragmented world

Peter A. Boncz, Martin L. Kersten

October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(261.36 KB) Additional Information: full citation, abstract, citings, index terms

In query-intensive database application areas, like decision support and data mining, systems that use vertical fragmentation have a significant performance advantage. In order to support relational or object oriented applications on top of such a fragmented data model, a flexible yet powerful intermediate language is needed. This problem has been successfully tackled in Monet, a modern extensible database kernel developed by our group. We focus on the design choices made in the Monet interprete ...

Keywords: Database systems, Main-memory techniques, Query languages, Query optimization, Vertical fragmentation

14 On indexing mobile objects

George Kollios, Dimitrios Gunopulos, Vassilis J. Tsotras

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(1.57 MB) Additional Information: full citation, references, citings, index terms

15 Data transformation and duplicate detection: Execution of data mappers

Paulo Carreira, Helena Galhardas

June 2004 **Proceedings of the 2004 international workshop on Information quality in information systems**

Publisher: ACM Press

Full text available: pdf(158.21 KB) Additional Information: full citation, abstract, references

Data mappers are essential operators for implementing data transformations supporting schema mapping and integration scenarios such as *legacy data migration*, ETL processes for *data warehousing, data cleaning* activities, and *business integration* initiatives. Despite their widespread use, no formalization of this important operation has been proposed so far. In this paper we propose the data mapper operator as an extension to the relational algebra. We supply a set of algebrai ...

16 Data integration and sharing I: Capturing both types and constraints in data integration

Michael Benedikt, Chee-Yong Chan, Wenfei Fan, Juliana Freire, Rajeev Rastogi

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(690.62 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a framework for integrating data from multiple relational sources into an XML document that both conforms to a given DTD and satisfies predefined XML constraints. The framework is based on a specification language, AIG, that extends a DTD by (1) associating element types with semantic attributes (inherited and synthesized, inspired by the corresponding notions from Attribute Grammars), (2) computing these attributes via parameterized SQL queries over multiple data sources, and (3) inc ...

17 Optimization of dynamic query evaluation plans

Richard L. Cole, Goetz Graefe

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

Traditional query optimizers assume accurate knowledge of run-time parameters such as selectivities and resource availability during plan optimization, i.e., at compile time. In reality, however, this assumption is often not justified. Therefore, the "static" plans produced by traditional optimizers may not be optimal for many of their actual run-time invocations. Instead, we propose a novel optimization model that assigns the bulk of the optimization effort to compile-time and ...

18 Research sessions: data integration: Adapting to source properties in processing data integration queries

Zachary G. Ives, Alon Y. Halevy, Daniel S. Weld

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(197.27 KB) Additional Information: full citation, abstract, references

An effective query optimizer finds a query plan that exploits the characteristics of the source data. In data integration, little is known in advance about sources' properties, which necessitates the use of *adaptive* query processing techniques to adjust query processing on-the-fly. Prior work in adaptive query processing has focused on compensating for delays and adjusting for mis-estimated cardinality or selectivity values. In this paper, we present a generalized architecture for adaptiv ...

19 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

20 Research papers: optimization: RankSQL: query algebra and optimization for relational top-k queries

Chengkai Li, Kevin Chen-Chuan Chang, Ihab F. Ilyas, Sumin Song

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(741.54 KB) Additional Information: full citation, abstract, references

This paper introduces RankSQL, a system that provides a systematic and principled framework to support efficient evaluations of ranking (*top-k*) queries in relational database systems (RDBMS), by extending relational algebra and query optimization. Previously, *top-k* query processing is studied in the middleware scenario or in RDBMS in a "piecemeal" fashion, *i.e.,* focusing on specific operator or sitting outside the core of query engines. In contrast, we aim to support ranking ...

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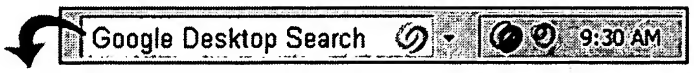

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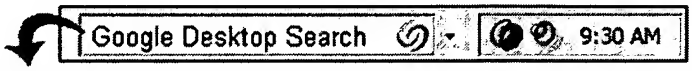

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